

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 9074 (1979): Raney Clips and Clip Applicator [MHD 7: Neurosurgery Instruments Implants and Accessories]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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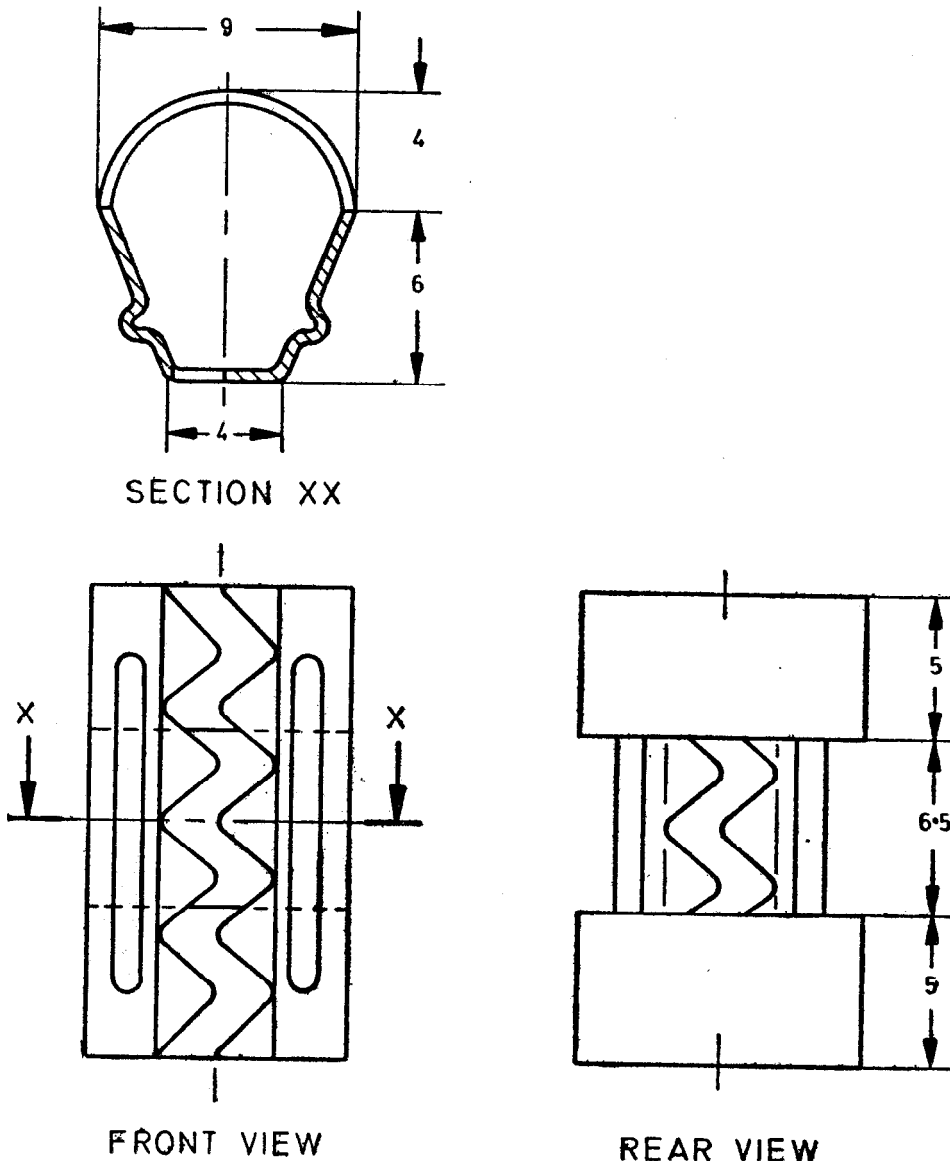


Indian Standard

SPECIFICATION FOR RANEY CLIPS AND CLIP APPLICATOR

1. Scope — Dimensions, material and other requirements for Raney clips and clip applicator used in neurosurgery.

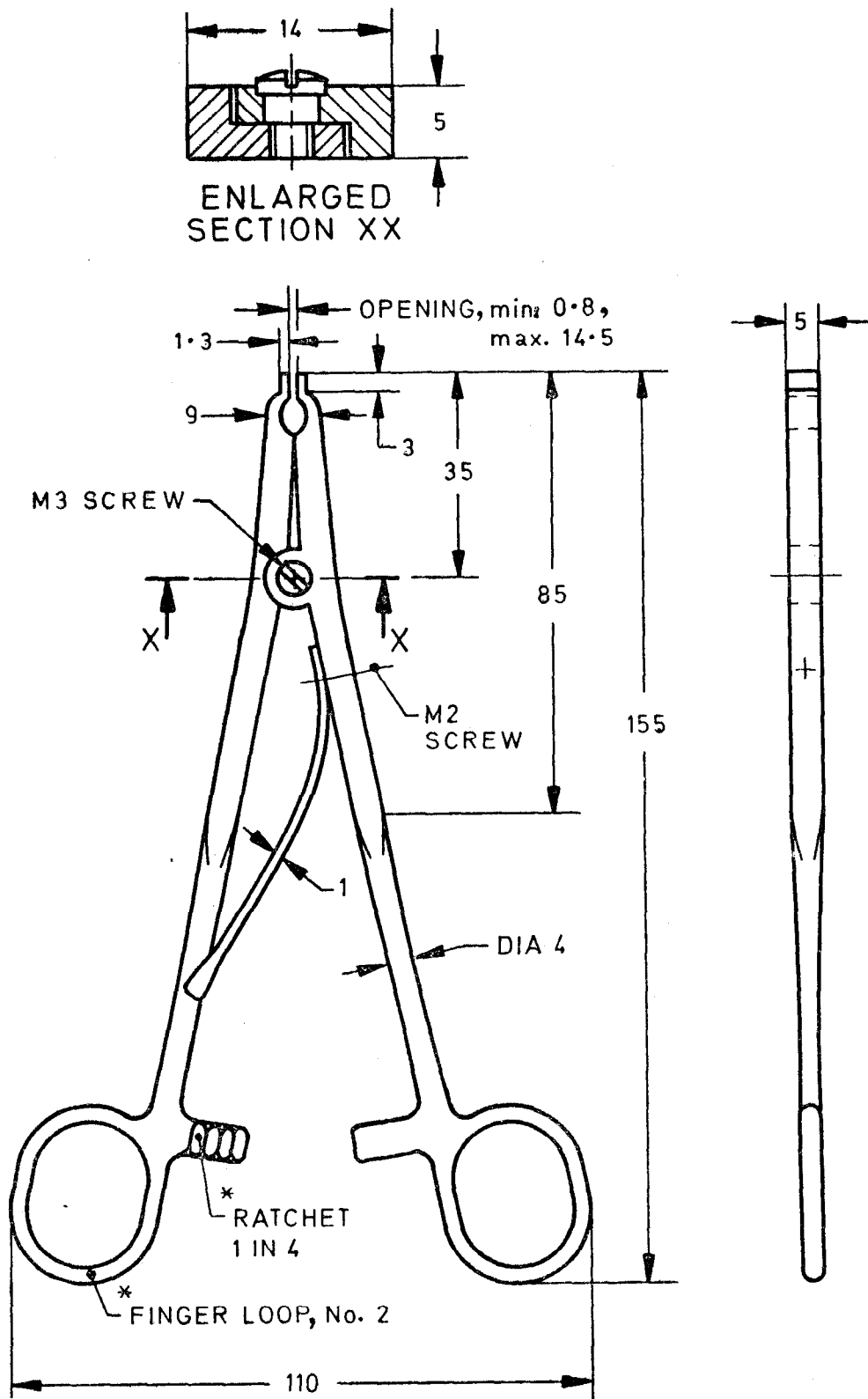
2. Shape and Dimensions — As shown in Fig. 1 and 2.



All dimensions in millimetres.

FIG. 1 RANEY CLIP

2.1 A deviation of ± 2.5 percent shall be allowed on all dimensions.



*See IS : 3642-1966 'General requirements for surgical instruments'.

All dimensions in millimetres.

FIG. 2 APPLICATOR, RANEY CLIP

3. Material

3.1 *Clips* — Stainless steel sheet of 0.40 mm thickness conforming to Designation 30Cr13 of IS : 6911-1972 'Specification for stainless steel plate sheet and strip'.

3.2 *Clip Applicator* — Arms of the applicator shall be made from stainless steel conforming to Designation 40Cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats'. The spring

shall be of stainless steel strip conforming to Designation 30Cr13 of IS : 6911-1972.

4. Workmanship and Finish

4.1 Clips

4.1.1 The clip shall be formed in one piece. It shall be free from burrs, sharp edges and other defects.

4.1.2 The teeth shall be reasonably sharp so that they provide an effective grip but do not pierce into the skin.

4.2 Applicator

4.2.1 The applicator shall be free from scale, burrs, cracks, pits, toolmarks and other surface defects.

4.2.2 The joint, the finger loops and the spring assembly shall be as shown in Fig. 2. All edges and the corners of the applicator shall be smoothly rounded off.

4.2.3 The spring action shall be neither too hard nor slack. There shall be no play at the joint.

4.3 The clips and the applicator shall be finished bright and passivated.

5. **Heat Treatment** — The clips and the spring for applicator shall be hardened and tempered to a hardness of 400 to 450 HV. The applicator arms shall be uniformly hardened and tempered to a hardness of 500 to 560 HV.

6. Tests

6.1 **Flexibility** — Take a piece of hard rubber 8 mm thick and grip it within the clip with the help of the applicator. Now remove the clip. Repeat it 10 times. There shall be no permanent set in the clip.

6.2 **Corrosion Resistance** — Subject the clips and the applicator to boiling and autoclaving test in accordance with IS : 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'.

7. **Marking** — Each applicator and clip shall be marked by etching or otherwise with the manufacturer's name, initials or registered trade-mark and the word 'Stainless'.

7.1 **ISI Certification Marking** — Details available with the Indian Standards Institution.

8. **Packing** — As agreed to between the purchaser and the supplier.